3A E. TRANSITIONING N1-1 TO SECONDARY FROM PRIMARY & N1-2 TO PRIMARY FROM STANDBY

1. <u>VERIFY MDM STATES AND MDM IDS</u>

PCS1 Node 1: C&DH: MDM N1-1
     | PRIMARY NCS MDM Node 1 |

    √STATE - Primary
    √MDM ID - N1-1

PCS1 Node 1: C&DH: MDM N1-2
     | SECONDARY NCS MDM Node 1 |

    √STATE - Standby
    √MDM ID - N1-2

> <u>NOTE</u>
> If states are not correct, do not execute this procedure, √**MCC**

2. <u>COMMAND N1-1 TO SECONDARY, (N1-2 SHOULD GO TO PRIMARY)</u>

PCS1 Node 1: C&DH: MDM N1-1
     | PRIMARY NCS MDM Node 1 |

> <u>NOTE</u>
> 1. Sending the following command will cause the loss of PCS1, Early COMM, and OIU telemetry until OIU reconfiguration and PCS2 reconnection are done.
>
> 2. Possible PDI DECOM Fail message.

    'MDM Major State:'

    sel Commands
    cmd N1-1_MDM_Xsitn_Second_State **Execute**

   √Frame Count - <static> (loss of PCS1 telemetry)

    N1-2 should go to Primary in 20 seconds.

3. <u>TELEMETRY RECOVERY ON PCS2</u>

PCS2 After boot up, when taskbar appears at bottom of display

    sel Arrow directly above 'PCS' logo
    sel Start/Restart PCS CDS
    sel Icon to open PCS CDS Main Control Panel Window

√Status Box is Green and 'Connected' is displayed in the PCSCDS Main
  Control Panel Window.

┌───┐
│   NOTE   │
│ PCS2 connection to MDM is indicated by 'Green' in the │
│ Status Box and/or 'Connected' message displayed in the│
│ PCS2 CDS Main Control.   │
└───┘

****
*   If Status Box is not Green, select 'Connect to MDM' icon   *
*   to reconnect.   *
*   If still no joy, close all displays and all iconified items and *
*   repeat this step.   *
*   *
*   √**MCC** if Status Box is still not green.   *
****

    4.   <u>VERIFY N1-2 IS PRIMARY AND N1-1 IS SECONDARY</u>

PCS2   Node 1: C&DH: MDM N1-2
         ┌────────────────────────┐
         │ PRIMARY NCS MDM Node 1 │
         └────────────────────────┘

      √Frame Count - <incrementing>

      'MDM Major State:'

      √STATE - Primary
      √MDM ID - N1-2

PCS2   Node 1: C&DH: MDM N1-1
         ┌──────────────────────────┐
         │ SECONDARY NCS MDM Node 1 │
         └──────────────────────────┘

      √Frame Count - <incrementing>

      'MDM Major State:'

      √STATE - Secondary
      √MDM ID - N1-1

     * ** *
     *   If States are not correct or no N1-2 TLM   *
     *   *
     *   √**MCC**   *
     * ** *

    5.   <u>TELEMETRY RECOVERY ON EARLY COMM (GROUND ONLY)</u>

┌───┐
│   NOTE   │
│ Early COMM should reconnect to N1-2 MDM on the other │
│ Orb bus automatically in about 10 seconds after N1-2 MDM│
│ becomes Primary.   │
└───┘

Node 1: C&DH: MDM N1-2
PRIMARY NCS MDM Node 1

√Frame Count - <incrementing>

'MDM Major State:'

√MDM ID - N1-2
√MDM State - Primary

```
* ******************************************************* *
*  If Frame Count is Static after 20 seconds from   *
*    the moment N1-2 becomes Primary (no Early  *
*    COMM telemetry received), √MCC               *
* ******************************************************* *
```

6. TELEMETRY RECOVERY ON OIU

NOTE
Possible PDI DECOM Fail message.

CRT   SM 212 OIU

BUS 3 BC - ITEM 11 EXEC
BUS 4 RT - ITEM 14 EXEC
Change OIU N1 Physical Device to N1-2 - ITEM 18 +3 EXEC

CRT   Reload OIU FORMAT 2 - ITEM 1 +2 EXEC

CRT   SM 210 NODE

√PHY ID PRI MDM - N1-2
√STATE - PRI
√FAIL - <blank>
√FRM CTR - <incrementing>